

COASTAL & ESTUARINE RESEARCH, INC.

Marine Studies Complex P.O. Box 674 Lewes, Delaware 19958 302-645-9610

August 7, 2018

Tyler Brown Wetlands and Subaqueous Lands Section, DNREC 89 Kings Highway Dover, DE 19901

Dear Tyler:



Enclosed are three copies of the DNREC Wetlands and Subaqueous Lands Section Basic Application Form and Appendix R (Maintenance Dredging), submitted on behalf of Sargio Corp. (c/o John Candeloro, applicant) to conduct 3,500 c.y. of mechanical maintenance dredging in the Bay Vista marina basin and access channel to depths of -4' MLW and -6' MLW, respectively, adjacent to the Lewes and Rehoboth Canal at Basin Street, Bay Vista, Rehoboth Beach, Sussex County, Delaware (Tax Map Parcel #3-34-19.16-23.03). Dredging will be conducted by land-based and barge-mounted excavators. Dredged material (predominantly mud) will be placed in an on-site upland disposal area adjacent to/north of the marina basin (Tax Map Parcel #3-34-19.16-23.02), also owned by the applicant. Dredging and disposal will be conducted by Apple Marine Construction, Inc.

Also enclosed are two checks payable to the State of Delaware, one for \$300.00 for the dredging application fee, and one for \$85.00 for the Public Notice fee.

Please feel free to contact me if you have any questions, or require additional information to issue the permit.

Sincerely,

Evelyn M. Maurmeyer, Ph. D.

Enclosures

cc: John Candeloro, Sargio Corp. (applicant)

George Apple, Apple Marine Construction, Inc. (contractor)



Section	1:	Apı	olicant	Identi	fication
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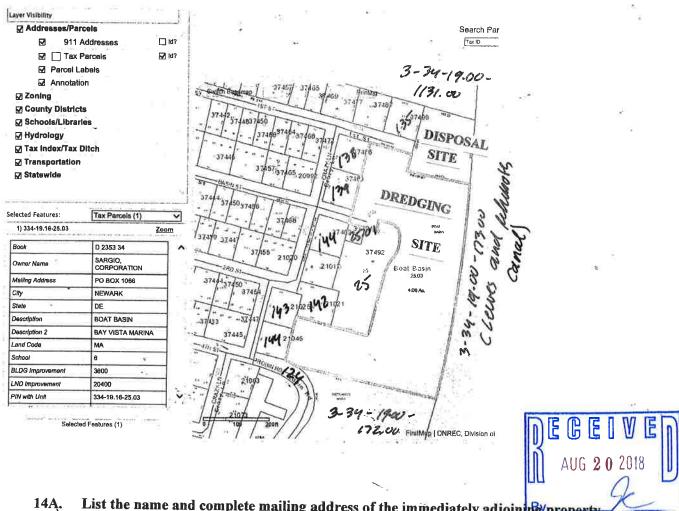
1. 2	1. Applicant's Name: Sargio Corp. Mailing Address: _c/o John Candeloro PO Box 1066 Newark DE			Telephone #: (302) 545-4655 Fax #: (302) 453-0446 E-mail: john@martahomes.com			
	Consultant's Name: Evelyn M. Mailing Address: PO Box 6 Lewes, D.	74	Telephone Fax #:	Name: CER, Inc. e#: (302) 645-9610 (302) 645-4332			
3. C	Contractor's Name: George A Mailing Address: 11702 Bay Berlin MD	Landing Dr.	Telephone Fax #: E-mail: 9	Name: Apple Marine Construction #:(410) 213-7097			
Section	on 2: Project Description			A STATE OF THE PROPERTY OF THE			
4. C	heck those that apply: w Project/addition to existing project		e existing st	tructure? (If checked, must answer #16)			
App dep Bay	roject Purpose (attach additional shee licant proposes 3,50 ths of -4' MLW (mari Vista marina basin losed Project Descri	0 c.y. mehanica na basin) and - , with disposal	at ad	tenance dredging to a (access channel) in the jacent uplands. See			
enc	rosed Project Descri	ption for detai	IS.				
6. C	heck each Appendix that is enclosed	with this application:		4)			
ITA	Boat Docking Facilities	G. Bulkheads		N. Preliminary Marina Checklist			
	Boat Ramps	H. Fill		O. Marinas			
	Road Crossings	I. Rip-Rap Sills and Revet	ments	P, Stormwater Management			
D.	Channel Modifications/Dams	J. Vegetative Stabilization		Q. Ponds and Impoundments			
E.	Utility Crossings	K. Jetties, Groins, Breakwa	aters	R. Maintenance Dredging			
	Intake or Outfall Structures	M. Activities in State Wetl		S. New Dredging			
Section 3: Project Location 7. Project Site Address: Bay Vista marina, Basin Street, Bay Vista Address of site owner: County: N.C. Kent Sussex Site owner name (if different from applicant): same Address of site owner:							
Reh	oboth Beach DE 19971			^			
	8. Driving Directions: See Figures 1, 2, and 3 for maps and directions:						
(Attach	a vicinity map identifying road nam	es and the project location)		AUG 2 0 2018			
9. Ta	x Parcel ID Number: #3-34-19	.16-23.03 Subdivisi	on Name: I				
WSLS	Use Only: Permit #s: 36	8/18					
Туре	SP SL D SU D	WE 🗆 WQ 🗸	LA 🗆	SA D MP D WA D			
Receive Fee Rec	Corps Permit: SPGP 18 20 Nationwide Permit #: Individual Permit # Received Date: 1/22/13 Project Scientist: Fee Received? Yes No Amt: 8 200 Receipt #: 674022						
rublic .	Notice #: Public No	tice Dates: ON	Ol	TF CONTRACTOR OF THE CONTRACTO			

Last Revised on: March 28, 2017



Section 3: Project Location (Co		
10. Name of waterbody at Project	Bay Vista Marina, ct Location: access chann waterbody is a tributary to: Lewes and F	<u>Rehobo</u> th Cana]
11. Is the waterbody:	dal U Non-tidal Waterbody width at mean low or ordinary high water 245	
	public subaqueous lands? State-regulated wetlands? In Federally-regulated wetlands?	basin)
Applicant owns ma	queous lands, provide the name of the subaqueous lands owner: rina basin vate subaqueous lands owner must be included with this application)	9
	ricultural Residential Commercial Industrial Other	story
Section 4: Miscellaneous	6	
14. A. List the names and comproject (attach additional she See attached sheet	t.	des of the
FI SC	9.	
*		
foot radius of the project (attach a n/a	projects, list the names and complete mailing addresses of property owners with additional sheets as necessary):	in a 1,000
15. Provide the names of DNREC Applicant's contra WSLS, DNREC.	Cand/or Army Corps of Engineers representatives whom you have discussed the project actor met on site with Tyler Brown and Zack M	
	isdictional Determination performed on the property? ewed in a monthly Joint Permit Processing Meeting? Yes W No te of the meeting?	
	or fill at the project site in subaqueous lands? WYes No it and/or lease number(s): 3/02	
*If no, were structures a	and/or fill in place prior to 1969? ☐ Yes ☐ No	
17. Have you applied for or obta	ined a Federal permit from the Army Corps of Engineers?	0 2018
Type of Permit: IP	Federal Permit or ID #not yet availabl	e
18. Have you applied for permits □ No	s from other Sections within DNREC? submitted not □ Issued □ Denied Date: 8/7/18 Permit or ID #: avai	
Type of permit (circle all that app	ply): Septic Well NPDES Storm Water	
Other: DCMP Coastal	Consistency Certification	

Last Revised on: March 28, 2017 °



14A. List the name and complete mailing address of the immediately adjoining property owners on all sides of the project.

<u>Dredging Site</u>: Bay Vista Marina basin, Tax Map Parcel #3-34-19.16-23.03 <u>Disposal Area</u>: Adjacent cleared upland area (Tax Map Parcel #3-34-19.16-23.02)

Tax Map Parcel

Name, address of owner

#3-34-19.00-1131.00 Susan Townley & Robert Wood, 37777 Bay Harbor Circle, Rehoboth Beach, DE 19971
#3-34-19.16-135.00 Henry & Phoebe Shaubach, 1004 Buck Road, Quarryville, PA 17566
#3-34-19.16-138.00 Vanice Manley, 2606 Landon Dr., Wilmington, DE 19808
#3-34-19.16-139.00 Harvey & Darlene Janner, 202 Glennshane Pass. Bear, DE 19701
#3-34-19.16-140.00 Ashley & David Bickel, 37482 Basin Street, Rehoboth Beach, DE 19971
#3-34-19.16-25.01 Sussex County Pump Station #219, PO Box 589, Georgetown, DE 19947
#3-34-19.16-25.00 Candeloro Properties, LLC, 885 Marrows Road, Newark, DE 19713
#3-34-19.16-142.00 James & Bianca Hilt, 4 Hillspring Rd., Chadds Ford PA 19317
#3-34-19.16-143.00 Glenn Brown, Trustee, 71 McBry Dr., Dover, DE 19901.
#3-34-19.16-144.00 Glenn & Charity Vernon, 21045 Crazy Lane, Rehoboth Beach, DE 19971
#3-34-19.16-124.00 (Robin Road), Ronald T. Moore, 20408 Silver Lake Drive, Rehoboth Beach, DE 19971
#3-34-19.00-172.00 State of Delaware, Div. of Parks and Recreation, 89 Kings Highway, Dover, DE 19901
#3-34-19.00-173.00 Lewes and Rehoboth Canal, United States Govt., PO Box 2000, Georgetown, DE 19947

OHONG YOUNG, BYTHE

Section 5: Signature Page

19. Agent Auti	horization:
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If you elect to complete	e this agent authorizati	on section, all fut	ure corresponder	ace to the Department may l	be signed b	v the
duly authorized agent.	In addition, the agent	will become the p	orimary point of	contact for all corresponder	ce from the	e
Department.					Mark III	es in

- openation.	D0	1994 (190) E			31 Table 1
I do not wish to autho	orize an agent to act on	my behalf.			
	agent as indicated bel	Property and the second		416	- 8
I, John M. Car	ndeloro,	hereby designate and authorize	Evelyn 1	Maurmeyer	TOWN STREET
Name of Applicant	Sargio Corp.		Name of A	gent	
Authorized Agent's N Mailing Address:	Iame: Evelyn Ma C.E.R., Inc. P.O. Box 674	application and to furnish any in urmeyer Telephone #: (302) Fax #: (302) 64 E-mail: maurmeye@	645-961 5-4332		e Department.
20. Agent Signature	ewes, DE 19958				
I hereby certify that the further understand that appropriately consider	t the Department may	form and on the attached plans is request information in addition to	true and accura	nte to the best of herein if deemed	my knowledge, I necessary to

21. Applicant's Signature:

I hereby certify that the information on this form and on the attached plans is true and accurate to the best of my knowledge and that I am required to inform the Department of any changes or updates to the information provided in this application. I further understand that the Department may request information in addition to that set forth herein if deemed necessary to appropriately consider this application. I grant permission to authorized Department representatives to enter upon the premises for inspection purposes during working hours.

Applicant's Signature **Print Name**

22. Contractor's Signature:

I hereby certify that the information on this form and on the attached plans is true and accurate to the best of my knowledge, and that I am required to inform the Department of any changes or updates to the information provided in this application. I further understand that the Department may request information in addition to that set forth herein if deemed necessary to appropriately consider this application.



COASTAL & ESTUARINE RESEARCH, INC.

Marine Studies Complex P.O. Box 674 Lewes, Delaware 19958 302-645-9610

August, 2018

PROJECT DESCRIPTION: MECHANICAL MAINTENANCE DREDGING, BAY VISTA MARINA AND ACCESS CHANNEL REHOBOTH BEACH, SUSSEX COUNTY, DELAWARE

Applicant

Sargio Corp.
John M. Candeloro
PO Box 1066
Newark, DE
(302) 545-4655 (cell)
iohn@martahomes.com

Contractor

Apple Marine Construction, Inc. George Apple 11702 Bay Landing Drive Berlin, MD 21811 (401) 213-7097; (443) 944 Georgerapple1@comcast.net

Project Location

The dredging site is the Bay Vista Marina basin and access channel, located on Basin Street, Bay Vista, Rehohoth Beach, Sussex County, Delaware. See Figures 1 and 2 for location maps and directions to the site. The site is identified as Tax Map Parcel #3-34-19.16-23.03, Sargio Corp., owner (see Figure 3). The site is depicted on the U.S.G.S topographic map, Rehoboth Beach, Delaware quadrangle (Figure 4), and is an artificially-excavated basin adjacent to the Lewes and Rehoboth Canal. The marina provides slips for approximately 25 vessels; a boat launch ramp is also present. See Figure 5a for GoogleEarth 2017 aerial photograph. The artificially-excavated basin was present in 1968 (see Figure 5b for 1968 aerial photograph). The dredging site is depicted on the National Wetlands Inventory Map (Figure 6), and is mapped E1UBL (estuarine subtidal, unconsolidated bottom, subtidal). The dredging site is depicted on State of Delaware DNREC wetland map #036, 1988 photobase (Figure 7), and is mapped W (water). See Figure 8 for photographs of marina and access channel.

Existing Conditions

Existing MLW depths range from 0' to -1.7' in the slips; typically -1.8' in the center of the basin; and -1.1' to 1.2' in the access channel. See Figure 9 for plan view sketch showing existing MLW depths (as measured on site by Evelyn Maurmeyer, CER, Inc., August 5, 2018). These depths are too shallow for boaters to leave or enter their slips at lower stages of tide (boats rest on the substrate); boaters have to time their egress and ingress to coincide with high tide, resulting in limited boating opportunities. Water depth drops of to -6' MLW and greater in the Lewes and Rehoboth Canal. See Figure 10 for representative cross-section sketches showing existing and proposed depths. Bottom material consists predominantly of mud (see photographs, Figure 11).



Project Description

The following activities are proposed:

- Maintenance Dredging. Accumulated sediment will be removed from the marina basin by mechanical dredging. A long-reach (50') excavator based on uplands will remove sediment from the slips, to a distance of about 40' from the bulkhead. The excavator will then swing around and place the material directly into the disposal area (see next section for detailed description of disposal area). Sectional barges will be transported to the site by trucks and will be assembled on site. A crane will lift the two barges into the water. An excavator will be placed on the larger of the two barges, and will conduct mechanical dredging from the water. Excavated material will be placed directly onto the second, smaller barge. When full, the smaller barge will be pushed toward shore, and the excavator will unload the dredged material directly into dump trucks, which will transport the material directly into the on-site disposal area. The marina basin area to be dredged is 245'± x 115'± (28,175 sq. ft./0.65 acre), to a depth of -4' MLW; the access channel dredging area is 95'± x 50'± (4,750 sq. ft./0.11 acre±), to a depth of -6' MLW (to tie into existing MLW depth in the adjacent waterway, Lewes and Rehoboth Canal); see Figure 12. Total volume to be dredged is 3,500 c.y.
- Dredged Material Disposal. Dredged material will be transported and deposited into a cleared upland area (also owned by the applicant), adjacent to/north of the marina basin, as described in the preceding section. See Figure 3 for location; Figure 5a for 2017 (GoogleEarth aerial photograph; Figure 6 for site location on National Wetlands Inventory Map (site is mapped uplands); Figure 7 for site location on State of Delaware DNREC wetland map #036, 1988 photobase (site is mapped O, other, uplands or non-tidal wetlands less than 400 acres); and Figure 13 for photographs. The site is approximately 140' x 135' at its widest, and is 14,853 sq. ft. (0.35 acre) in size, and will accommodate up to 3,500 c.y. Site preparation will involve excavating a 2' to 3' deep cut, and using the excavated material to create a 3' tp 4' high earthen berm around the site. See Figure 14 for plan view sketch of proposed disposal area (prepared by George Apple, Apple Marine Construction., Inc., dredging contractor).

Project Purpose

Purpose of proposed project is to restore navigable depths in the Bay Vista Marina slips, marina basin, and access channel to allow vessels ingress and egress at all stages of the tide.

MAINTENANCE DREDGING OR EXCAVATING

- If dredged material is to be placed in a disposal site, a separate map showing the location of the disposal site should be attached. This drawing must indicate the proposed retention levees, weirs, spillways, and/or devices for retaining the materials.
- Bottom samples to determine heavy metals or other toxic materials must be taken and analyzed if deemed necessary by the DNREC staff. The responsibility, as well as the expense incurred for obtaining and analyzing these samples, must be borne by the applicant.
- If maintenance dredging is to be done, evidence of previous dredging <u>must</u> be provided. Any previously issued permit with drawings which indicates the date the dredging occurred, the area involved and dredging depth constitutes acceptable proof.

 Marina basin was excavated prior to 1968 (see Figure 5b).
- Please make sure answers to all of the questions in this appendix correspond to information on the application drawings.
- 1. How many cubic yards of material will be MAINTENANCE DREDGED or excavated channelward of the:
 - a. Tidal waters: mean high water line? 3,500 cu. yds. mean low water line? 3,500 cu. yds.
 - b. Non-tidal waters: ordinary high water line? n/a cu. yds.

Does this account for the total volume of proposed dredging for the project? X Yes No lf there is new dredging associated with this project (dredging beyond previously authorized dimensions) please fill out appendix S for new dredging.

- 2. What will be the dimensions of the dredged or excavated area relative to mean low water (for tidal areas only) or ordinary water level (for non-tidal areas only)?

 245' length -4' depth 115' base width 115' top width marina basin
- 3. What are average existing depths in area of proposed dredging? 1-2'± ft. (mlw/ohw) Include a survey of proposed and existing depths on application drawings. (see Figures 9 and 10) Dredging will tie into existing depths.
- 4. What is the proposed dredging depth in relation to surrounding bathymetry? 4'; 6' ft.(mlw/ohw) Indicate both proposed depths and surrounding depths on attached drawings.

 See Figures 9 and 10 for plan view and cross-sections showing existing and proposed depths.
- 5. By what method(s) (hydraulic clamshell or other) will the dredging be done? If other, explain:

 Mechanical (long-reach excavator); see Project Description for details.

6. What is proximity of the dredging project to the nearest creek bank or banks?

(bulkhead)

What are existing land uses along this bank(s)?

Land use is parking area (uplands), and open space (marsh).

Describe the existing shoreline along this bank (vegetation, rip-rap, bulkhead, etc.).

Bulkheading (and some stone rip-rap) along marina basin banks; wetland vegetation along access channel (see aerial photograph, Figure 5a and ground-level photographs, Figure 8).

- 7. Describe characteristics of the material to be disposed including:
 - a. Physical nature of material (i.e. sand, silt, clay, etc.). Give percentages of various fractions if available.

Predominantly mud (see photograph, Figure 11):

b. Chemical composition of material - Many areas have sediments with high concentration of pollutants (chemicals, organics etc.) which may be re-suspended or reintroduced into the water. For heavily industrialized sites, a chemical analysis of this material should be provided (if applicable).

Information not available.

- c. What are the dewatering properties of material to be disposal of?

 Material anticipated to dewater within months of disposal.
- 8. How will the dredged or excavated material be transported to its disposal area?

 Directly from land-based long-reach excavator, and by trucks (see Project Description for details).
- 9. Land Disposal Areas. SEE ATTACHED SHEET
 - a. Describe dimensions, characteristics and exact locations of the proposed dredged material disposal site (provide photographs, directions to, and complete plans of disposal site).
 - b. Describe method of dredged material containment (embarkment, behind bulkhead, etc.)
 - c. What type of leachates will be produced by the spoil material and what is planned for the protection of groundwater?

d. Disposal site coordinates ______latitude _____longitude

- e. What methods will be used to ensure that spoil water does not adversely affect water quality both during construction and after completion of the project?
- f. Describe present land use of the disposal site.

9. Land Disposal Areas

- a. The proposed dredged material disposal site is a vacant, cleared upland area adjacent to/north of the dredging site, identified as Tax Map Parcel #3-34-19.16-25.02 (Sargio Corp., owner). See Figure 3 for location map; Figure 5a for GoogleEarth 2017 aerial photograph; Figure 6 for site location on National Wetlands Inventory Map (site is mapped uplands); Figure 7 for site location on State of Delaware DNREC wetland map #036, 1988 photobase (site is mapped O, other, uplands or non-tidal wetlands less than 400 acres); Figure 13 for ground-level photographs; and Figure 14 for plan view sketch with dimensions and description of proposed site preparation.
- b. Dredged material will be contained by earthen berms and silt fencing. Contractor will excavate to a depth of -2' to -3', and will use the material to build up an earthen berm +3' to +4' in height.
- c. The Bay Vista community is served by city water. There are no drinking water wells in the vicinity that would be affected by possible leachates/salt water.

d. Latitude: 38.699° North (approximate center of disposal site)
Longitude: 75.0946° West (approximate center of disposal site)

- e. Contractor will place excavated material directly into disposal site, or into trucks for transport to minimize adverse effects on water quality. Earthen berm and silt fencing will contain excavated material after completion of dredging.
- f. Present use of disposal area is open space. A portion of the site was previously used for disposal of excavated material from a nearby community.

FEB 1 5 2019

BY: 27

10. Water Disposal Areas/ Beneficial Use Projects Not applicable

Describe methods to be used for water disposal including volumes and site selection, and containment (if applicable). Include Fill or Wetland Appendix If applicable.

11. Describe the existing water characteristics at the site, including chemical analysis for water quality.

See attached sheet

12. Identify the dredging and disposal schedule to ensure that operations do not degrade water quality during times of anadromous fish migration.

Dredging/disposal will be conducted late fall/winter 2018/19.

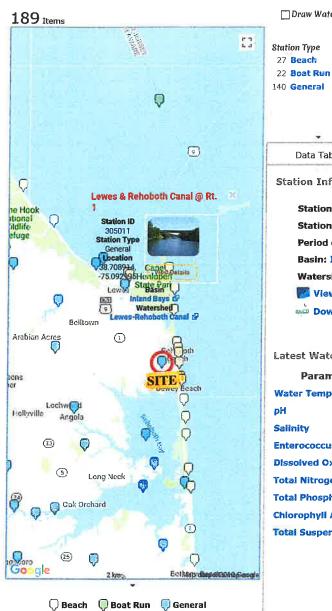
13. Has an Erosion and Sediment Control Plan been approved by the designated plan approval agency for the project? An Erosion and Sediment Control Plan is required for any project disturbing more than 5,000 square feet of uplands. Final approved plans must be received by this office prior to permit issuance.

Yes ____No ___Not required E&S plan to be submitted to Sussex SCD.

important time of year restriction information:

Please be advised that all dredging in the Inland Bays must be undertaken between September 1 and December 31 in order to protect summer and winter flounder and other aquatic species. Dredging in other Delaware waters may also be subject to certain time of year restrictions in order to protect fish and wildlife. Contact DNREC for more specific information regarding the restrictions that may apply within your project area.





140 General

Draw Watersheds

Select a Basin

30 Chesapeake Bay 93 Delaware Bay and Estuary Basin

C Full State Zoom Search Data | Bookmark

44 Inland Bays

22 Piedmont

Select a Watershed

8 Appoquinimink River

4 Army Creek

1 Assawoman

3 Blackbird Creek

3 Brandywine Creek

6 Broad Creek

Data Table 305011

Station Information

Station ID: 305011

Station Name: Lewes & Rehoboth Canal @ Rt. 1

Period of Record: Mar 09, 2000 - Aug 23, 2017

Basin: Inland Bays &

Watershed: Lewes-Rehoboth Canal ₽

🐻 View Historical Station Data Download Historical Station Data (.csv)

Zoom to this station OHighlight Location

Latest Water Quality Samples

Parameter 🕕	Value 🕕	ResultType 🕕	Date
Water Temp	27.1 °C	Actual	Aug 22, 2017
PH	7.3	Actual	Aug 22, 2017
Salinity	24.18 ppt	Actual	Aug 22, 2017
Enterococcus	74.0 cfu/100 ml	Actual	Aug 22, 2017
Dissolved Oxygen	5.43 mg/l	Actual	Aug 22, 2017
Total Nitrogen	0.97 mg/l	Actual	Aug 22, 2017
Total Phosphorus	0.12 mg/l	Actual	Aug 22, 2017
Chlorophyll A	18.80 mg/l	Actual	Aug 22, 2017
Total Suspended Solids	35.1 mg/l	Actual	Aug 22, 2017







This site was developed by the Delaware Environmental Observing Sytem and the Delaware Environmental Monitoring & Analysis Center in coordinateion with the DNREC Watershed Assessment Section. All data for this site were obtained from the National Water Quality Monitoring Council's National Water Quality Portal (www.waterqualitydata.us).



WITH DISPOSAL AT ADJACENT UPLAND DISPOSAL AREA IN: Bay Vista Marina basin and access channel AT: Basin Street, Bay Vista, Rehoboth Beach, Sussex County, DE Tax Map Parcel #3-34-19.16-25.03 APPLICANT: Sargio Corp. DATE: August 7, 2018 AUG 20 2018 SUSSEX COUNTY, DE SCALE IN MILES EXIT...... ©1998 Nexandria Drafting Company, 6440 General Green Way, Alexandria, VA 22312-2447, All rights reserved. This publication may not be reproduced, in whole or in part, in any form or by any means, without written permission of the copyright owner. DELAWARE BAY

PROPOSED 3,500 C.Y. MECHANICAL MAINTENANCE DREDGING TO -4' MLW (BASIN)/-6' MLW (CHANNEL),

Figure 1. Map of Sussex County, Delaware showing project site, Bay Vista, Rehoboth Beach.

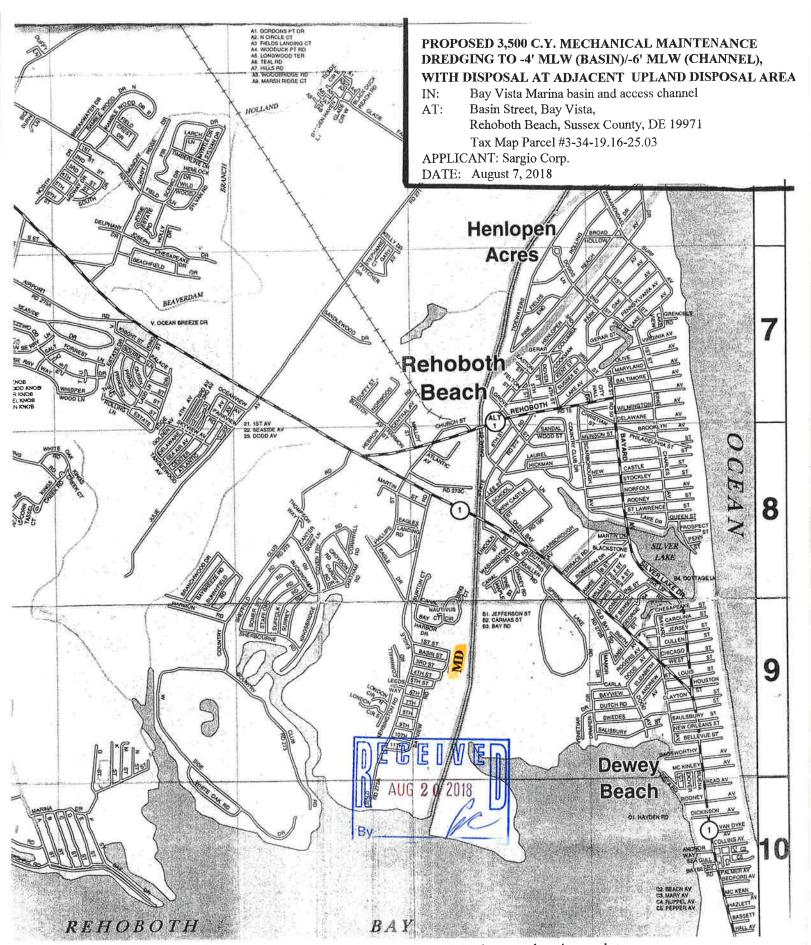


Figure 2. Map of Rehoboth Beach, Sussex County, Delaware showing maintenance dredging (MD) site, Bay Vista Marina. Directions to site (from Dover, DE): SR-1 southbound toward Rehoboth Beach; right onto Bay Vista Road; left onto Basin Road; marina is at end of road. Disposal site is cleared upland area adjacent to/north of basin. Also see Figure 3.

FirstMap | DNREC, Division of

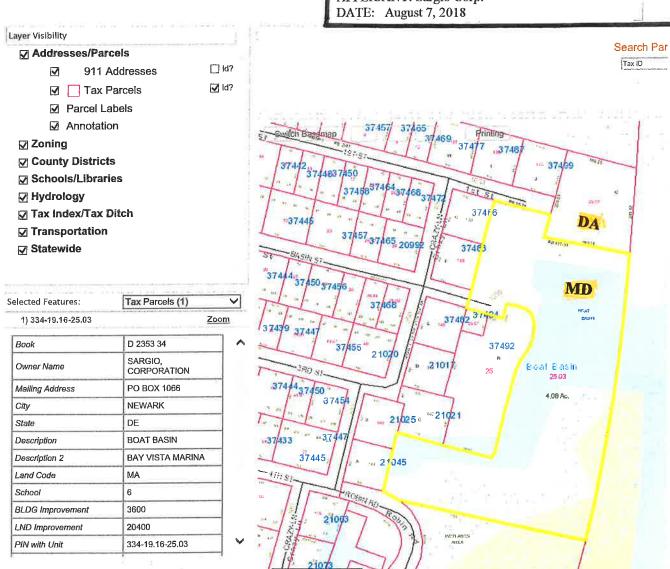
Bay Vista Marina basin and access channel IN:

Basin Street, Bay Vista, AT:

Rehoboth Beach, Sussex County, DE 19971

Tax Map Parcel #3-34-19.16-25.03

APPLICANT: Sargio Corp.



Sussex County Mapping

Selected Features (1)

Figure 3. Maintenance dredging (MD) site location, Bay Vista Marina basin, Tax Map Parcel #3-34-19.16-25.03 (Basin Street, Bay Vista, Rehoboth Beach, Sussex County, Delaware). Disposal area (DA) is Tax Map Parcel #3-34-19.16-25.02, adjacent to/north of basin. Applicant owns marina and disposal area

IN: Bay Vista Marina basin and access channel

AT: Basin Street, Bay Vista,

Rehoboth Beach, Sussex County DF 10071

Tax Map Parcel #3-34-19.16-25.03

APPLICANT: Sargio Corp. DATE: August 7, 2018



Figure 4. Site location on U.S.G.S. topographic map, Rehoboth Beach, Delaware quadrangle. Site is adjacent to Lewes and Rehoboth Canal. Scale: 1" = 2,000'.

Bay Vista Marina basin and access channel

Basin Street, Bay Vista, AT:

Rehoboth Beach, Sussex County, DE 19971

Tax Map Parcel #3-34-19.16-25.03

APPLICANT: Sargio Corp. DATE: August 7, 2018



GoogleEarth 2017 aerial photograph showing maintenance dredging (MD) site, Figure 5a. Bay Vista Marina basin and entrance channel, adjacent to Lewes and Rehoboth Canal; and disposal area (DA), cleared uplands adjacent to/north of basin.

meters

100

AUG 20 2018

ArcGIS - Delaware 1968 Orthophotography

PROPOSED 3,500 C.Y. MECHANICAL MAINTENANCE DREDGING TO -4' MLW (BASIN)/-6' MLW (CHANNEL), WITH DISPOSAL AT ADJACENT UPLAND DISPOSAL AREA

IN: Bay Vista Marina basin and access channel

AT: Basin Street, Bay Vista,

Rehoboth Beach, Sussex County, DE 19971

Tax Map Parcel #3-34-19.16-25.03

APPLICANT: Sargio Corp. DATE: August 7, 2018

ArcGIS ▼ Delaware 1968 Orthophotography

Basemap

Details

Delaware 1968
Orthophotography

C Topographic

Contents

Print | Measure Find address or place

Figure 5b. 1968 aerial photograph showing Bay Vista Marina basin and access channel.



Мос

National Wetlands Inventory

✓ Wetlands

☐ Riparian

☑ Data Source

☐ Areas of Interest

☐ FWS Managed Lands☐ Historic Wetland Data

☐ Riparlan Mapping Areas

O Source TypeO Image ScaleO Image Year

PROPOSED 3,500 C.Y. MECHANICAL MAINTENANCE DREDGING TO -4' MLW (BASIN)/-6' MLW (CHANNEL), WITH DISPOSAL AT ADJACENT UPLAND DISPOSAL AREA

IN: Bay Vista Marina basin and access channel

AT: Basin Street, Bay Vista,

Rehoboth Beach, Sussex County. DF 19971

Tax Map Parcel #3-34-19.16-25.03

APPLICANT: Sargio Corp. DATE: August 7, 2018

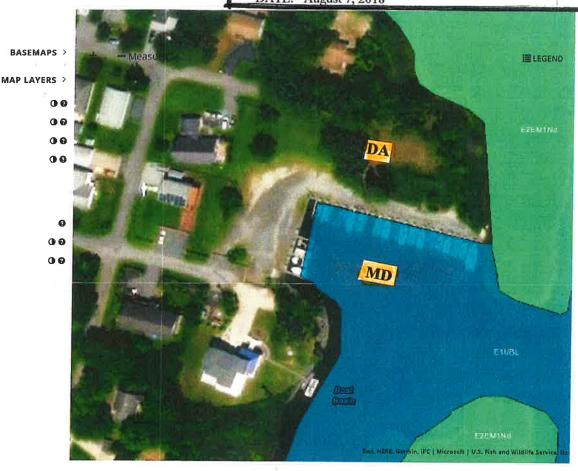


Figure 6. National Wetlands Inventory Map showing maintenance dredging (MD) site, Bay Vista Marina basin and access channel, adjacent to Lewes and Rehoboth Canal. Site is mapped E1UBL (estuarine subtidal, unconsolidated bottom, subtidal). Disposal area (DA) mapped uplands.



IN: Bay Vista Marina basin and access channel

AT: Basin Street, Bay Vista,

Rehoboth Beach, Sussex County, DE 19971

Tax Map Parcel #3-34-19.16-25.03

APPLICANT: Sargio Corp. DATE: August 7, 2018



Figure 7. State of Delaware DNREC wetland map #036 (1988 photobase) showing maintenance dredging (MD) site, Bay Vista Marina basin and access channel, adjacent to Lewes and Rehoboth Canal. Site is mapped W (water). Disposal area (DA) mapped O (other, uplands or non-tidal wetlands less than 400 acres).

Scale: 1'' = 300'.



IN: Bay Vista Marina basin and access channel

AT: Basin Street, Bay Vista,

Rehoboth Beach, Sussex County, DE 19971

Tax Map Parcel #3-34-19.16-25.03

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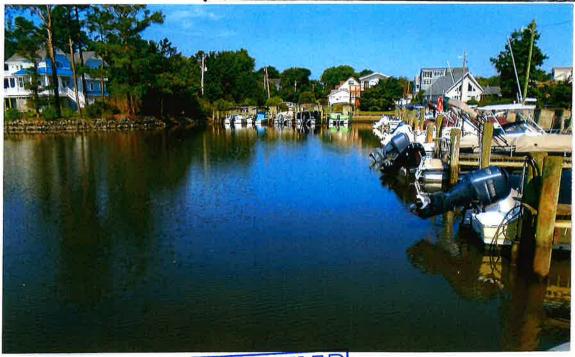




Figure 8. Photographs of maintenance dredging site, Bay Vista Marina basin (top) and access channel (bottom), adjacent to Lewes and Rehoboth Canal.

IN: Bay Vista Marina basin and access channel

AT: Basin Street, Bay Vista,

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LEWES AND NEADOOTH CANAC N. P. MARINA D.N.R.E.C. TIDAL WETLAND BOUNDARY NON-TIDAL WETLANDS LIMIT OF CORPS OF ENGINEERS JURISDICTION N 22-06-00 E 50,00 SUSSEX 8 3-34-19.16-25,00 N 22-06-00"E (sel) AUG 20 2018

Figure 9. Plan view sketch showing existing MLW depths, as measured on site by Evelyn Maurmeyer, CER, Inc., August 5, 2018.

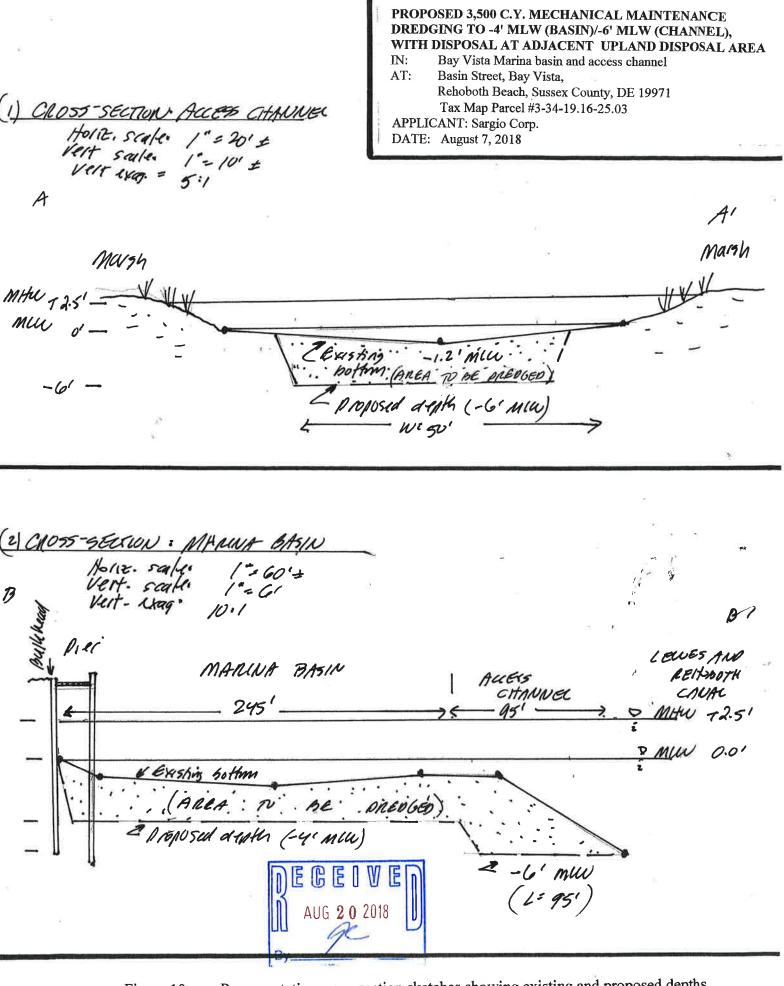


Figure 10. Representative cross-section sketches showing existing and proposed depths.

IN: Bay Vista Marina basin and access channel

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Rehoboth Beach, Sussex County, DE 19971

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Figure 11. Photographs of sediment core from Bay Vista Marina basin. Material consists predominantly of mud (silt + clay).

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-6 MLW Spoil Anea K

Figure 12. Plan view diagram (prepared by George Apple, Apple Marine Construction., Inc., dredging contractor) showing dimensions and extent of area to be dredged (cross-hatched).

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AT: Basin Street, Bay Vista,

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Tax Map Parcel #3-34-19.16-25.03

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Figure 13. Photographs of disposal area, vacant upland area adjacent to marina basin.

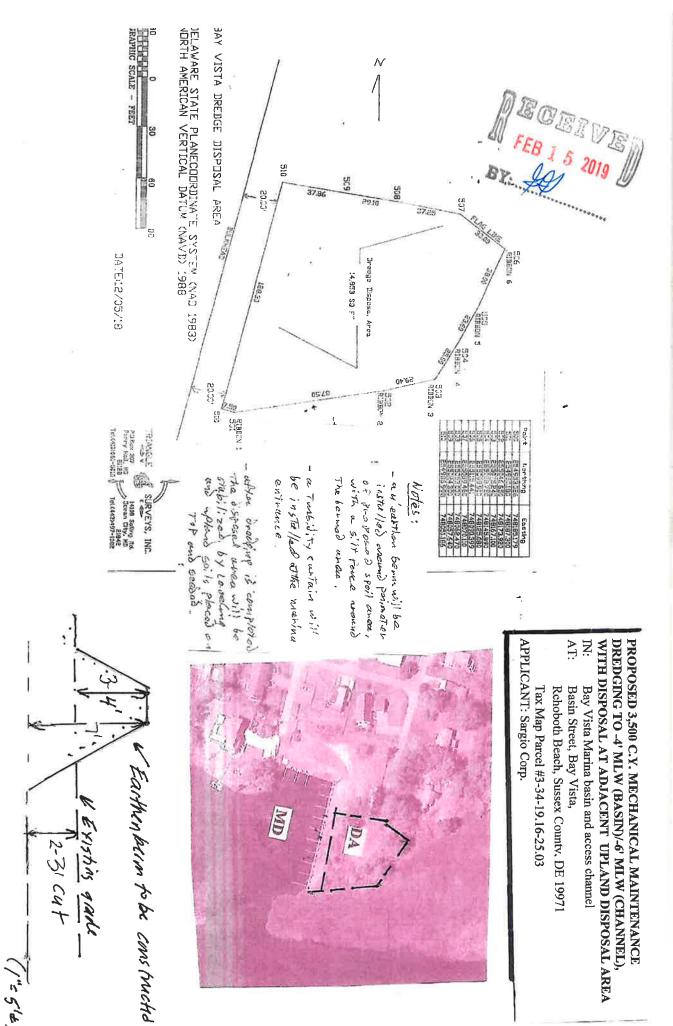
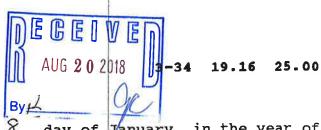


Figure 14. Plan view (survey) and cross-section of proposed disposal site.



THIS DEED, MADE this day of January, in the year of our Lord one thousand nine hundred and ninety-nine (1999),

BETWEEN: BAY VISTA INC., A DELAWARE CORPORATION, 902 Bay View Road, Rehoboth Beach, Delaware 19971, party of the first part,

-AND-

SARGIO CORP., a Delaware corporation, D-6 885 Marrows Road, P.O. Box 1066, Newark, Delaware, 19713, party of the second part;

WITNESSETH, That the said party of the first part, for and in consideration of the sum of ONE HUNDRED THOUSAND DOLLARS (\$100,000.00) Current Lawful Money of the United States of America and other good and valuable considerations, the receipt whereof is hereby acknowledged, hereby grants and conveys unto the said party of the second part, its successors or assigns:

ALL that certain piece or parcel of land situate, lying and being in Lewes and Rehoboth Hundred, Sussex County, State of Delaware, being known and designated as "BAY VISTA MARINA AREA" as shown on a plot prepared by Coast Survey, Inc., Registered Surveyors, dated November 10, 1998, and being more particularly described as follows, to wit:

BEGINNING at an iron pipe located on the Southeasterly right of way line of Crazy Street, said pipe being located along the line of Lot H and being a corner for a Private Road; thence turning and running along the line of Lots H, I and J and running along said Private Road South 67 degrees 54 minutes 00 seconds East 235.00 feet to an iron pipe, said pipe being a corner for Lot J and said Private Road; thence turning and running along the line of Lot J, North 22 degrees 06 minutes 00 seconds East 118.13 feet to an iron pipe, said pipe being a corner for this land and Lot J and being located along the line of Bay Harbor Subdivision; thence turning and running along said Bay Harbor Subdivision, South 69 degrees 10 minutes 00 seconds East 155 feet +/- to an iron pipe, being a corner for this land; thence turning and running in a Southwesterly direction along the U.S. Government Canal Right of Way, running through the Lewes and Rehoboth Canal, a distance of 475 feet +/- to a point; thence turning and running in a southerly direction along Rhodes Creek 525 feet +/- to a point located along the line of the State of Delaware; thence turning North 67 degrees 54 minutes 00 seconds West 280 feet +/- to an iron pipe, said pipe being a corner for this land and Lot A; thence turning and running along the line of Lots A and B, North 22 degrees 06 minutes 00 seconds East 140.00 feet to an iron pipe, said pipe being located along the line of Lot B; thence turning and running along the line of Lot C, South 67 degrees 54 minutes 00 seconds East 100.00 feet to an iron pipe; thence turning and running along the line of Lot C, North 22 degrees 06 minutes 00 seconds East 100.00 feet to an iron pipe; thence turning North 67 degrees 54 minutes 00 seconds West 25.00 feet to an iron pipe, said pipe being located along the line of Lot C and being a corner for Lot D; thence turning and running along the line of Lots D and E, North 22 degrees 06 minutes 00 seconds

South 67 degrees 54 minutes 00 seconds East 100.00 feet to an iron pipe, said pipe being a corner for Lot F; thence turning and running along the line of Lots F and G, North 22 degrees 06 minutes 00 seconds East 200.00 feet to an iron pipe, said pipe being a corner for Lot G and being located along a Private Road; thence turning and running along said Private Road, North 67 degrees 54 minutes 00 seconds West 100.00 feet to an iron pipe, said pipe being a corner for Lot G and being located on the Southeasterly right of way line of Crazy Street; thence turning and running along Crazy Street, North 22 degrees 06 minutes 00 seconds East 40.00 feet to an iron pipe, said pipe being located along the line of Lot H, and being the point and place of beginning.

BEING a part of the same land conveyed Bay Vista, Inc. by a Deed of John H. Webb, dated January 8, 1953 and filed for record in the Office of the Recorder of Deeds, in and for Sussex County, at Georgetown, Delaware, in Deed Book 415, page 396.

SUBJECT to and together with the ingress and egress to Lots H, I and J in the aforementioned private road.



IN WITNESS WHEREOF, the said party of the first part has caused these presents to be signed by its proper officers and its corporate seal to be hereunto affixed the day and year aforesaid.

BAY VISTA, INC.

By: Lucy S. Guenveur

Attest: BMNey

DEGETVEN

STATE OF DELAWARE

:ss.

COUNTY OF SUSSEX

BE IT REMEMBERED, That on this 5 day of Annual, A.D. 1990, personally came before me, The Subscriber, a Notary Public for the State and County aforesaid, LUCY S. GUENVEUR, President of BAY VISTA, INC., a corporation of the State of Delaware, party to this Indenture, known to me personally to be such, and acknowledged this Indenture to be her act and Deed, and the act and the Deed of the said corporation; that the signature of the President is in her own proper handwriting; that the seal affixed is the common and corporate seal of the said corporation duly affixed by its authority; and that the act of signing, sealing, acknowledging and delivering the said Indenture was first duly authorized by resolution of the Board of Directors of the said corporation.

GIVEN under my Hand and Seal of Office, the day and year aforesaid.

Notary Public

Joan L. Tyndall _Notary Public, Delaware

Print or Type Name Comm Commission Expires:_____

Comm. Exp 2/9/01

